

7/18/2018

Initial Review Exposure Report

Chemical ID:P-18-0221 Reviewer:Sarraino/HDJ SF_SF-Sustainable Futures;YX_YX-Exposure-Based 5(e)

Exposure Scenario	Water						Land fill(non-sludge)	Stack		Fugitive	
Release Activity(ies) exposure Calculations	Drinking Water		Fish Ingestion								
	ADR mg/kg/day	LADD mg/kg/day	ADR mg/kg/day	LADD mg/kg/day	7Q10cc 1000 ug/l	PDM Exceeded # Days	LADD mg/kg/day	ADR mg/kg/day	LADD mg/kg/day	ADR mg/kg/day	LADD mg/kg/day
MFG:Max LADD	--	--	--	--	--	--	1.94e-3	-- (--)	-- (--)	-- (--)	-- (--)
USE:Max LADD	--	--	--	--	--	--	6.90e-6	-- (--)	-- (--)	-- (--)	-- (--)

1. Exposure scenario titles consist of release activity followed by exposure calculation abbreviation.
2. Release activities are from engineering report's Manufacturing (Mfg), Processing (Proc) and Use release activity labels. Multiple release activities are combined in one exposure scenario if their releases occur at same location.
3. Exposure calculations are Acute Dose Rate (ADR), Lifetime Average Daily Dose (LADD), and Probabilistic Dilution Model (PDM). There may be one, two, or all three exposure calculations per exposure scenario. CC is the aquatic concentration of concern.
4. This column displays concentration values for the 7Q10 streamflow, which is defined as the average daily streamflow of the seven consecutive days of lowest flow within a ten year period.

Remarks: PV > 100,000 (XB Testing Desired)

Result Table: Exposure Based(XB)/Persistent (P2B2) Criteria

Parameter	Exp Based	Persistent	Exceedence Value
Drinking(Surface) Water Dose (mg/kg/day)	No	NA	--
Fish Ingestion Dose (mg/kg/day)	No	NA	--
Inhalation Dose (mg/kg/day)	No	NA	--
Groundwater Dose (mg/kg/day)	No	NA	--
Surface Water Release After Treatment (kg/yr)	No	NA	--
Total Release After Treatment (kg/yr)	Yes	NA	1.33e+4
Consumer Use?	No		--

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Assessor: Sarraino/HDJ

ENVIRONMENTAL RELEASES

Scenario#:1

Number of Release Sites: 1.

Release Activity: MFG:Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	N/A (kg/yr)	1.32E+04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	N/A	1.00/0.00	N/A	N/A
Per Site Release:	N/A (kg/site/day)	1.32E+04/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

Chemical ID: P-18-0221

SCENARIO #: 1 ACTIVITY: MFG:Max LADD

EXPOSED POPULATION: Adult

NUMBER OF SITES	NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days)	LANDFILLED SLUDGE ¹ AND DAYS OF RELEASE (kg/site/day)/(days)	MIGRATION DESCRIPTOR ²	ADSORPTION TO WASTEWATER SLUDGE (%)	DRINKING WATER TREATMENT (%)
1.	1.32E+04/1.00	0.00/0.00	Slow	0.00	0.00

Migration Descriptor	Log K _{oc}	Groundwater Concentration (GWC) (mg/L per kg release)
Negligible	no migration	None
Negligible to slow	> 4.5	3.21E-6
Slow	<4.5 to 3.5	2.67E-5
Moderate	<3.5 to 2.5	5.95E-5
Rapid	<2.5	7.55E-5

Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (L/day)
Cancer					
LADD _{pot} (mg/kg/day)	1.94E-03	33.00	78.00	80.00	1.04
LADC _{pot} (mg/L)	0.15	33.00	78.00	NA	NA

REMARKS:

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ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 2.

Release Activity: USE:Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	N/A	94.00	N/A	N/A
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:	N/A	1.00/0.00	N/A	N/A
Per Site Release:	N/A	47.00/0.00	N/A	N/A
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

